

Windbreak Interpretations

Farmstead windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low-growing and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, increase crop yields, and provide food and cover for wildlife.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters a tree or shrub may be well or poorly suited because of soil characteristics. Each tree or shrub also has definable potentials of height growth based on the soil type and climate.

Information in this subsection, which includes windbreak suitability groups and a windbreak and environmental plantings table, can be used as a guide in planning windbreaks and screens.

This subsection includes:

- **(a) Trees and Shrubs for Windbreak and Environmental Plantings**

Table 12.--Windbreaks and Environmental Plantings

(Absence of an entry indicates that trees generally do not grow to the given height.)

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
40000: Barden-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40011: Barco-----	American plum, common lilac, fragrant sumac	Washington hawthorn, gray dogwood	Austrian pine, black oak, common hackberry, eastern redcedar, white ash	Shortleaf pine-----	---
40015: Eldorado-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---
40016: Eldorado-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---
40017: Maplegrove-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40018: Medoc-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
40019: Newtonia-----	Northern spicebush, redosier dogwood, silky dogwood, black chokeberry, mapleleaf viburnum	American hazelnut, American plum, blackhaw, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, nannyberry, arborvitae, eastern redcedar, pecan, red pine, white oak	Norway spruce, black walnut, tuliptree, blackgum, common hackberry, green ash, northern red oak	Eastern white pine, eastern cottonwood
Eldorado-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---
40020: Newtonia-----	Northern spicebush, redosier dogwood, silky dogwood, black chokeberry, mapleleaf viburnum	American hazelnut, American plum, blackhaw, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, nannyberry, arborvitae, eastern redcedar, pecan, red pine, white oak	Norway spruce, black walnut, tuliptree, blackgum, common hackberry, green ash, northern red oak	Eastern white pine, eastern cottonwood
Eldorado-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---
40021: Opolis-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
Hepler-----	American plum, fragrant sumac	Blackhaw, gray dogwood	Washington hawthorn, eastern redcedar, nannyberry	Baldcypress, green ash, sweetgum	Eastern white pine, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
40022: Opolis-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40023: Opolis-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40024: Opolis-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40026: Sylvania-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40027: Sylvania-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40028: Sylvania-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
40029: Sylvania-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
44000: Cherokee-----	Common ninebark, fragrant sumac	Amur maple, gray dogwood, possumhaw	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak	---
44002: Carl-----	Buttonbush, common elderberry, common ninebark, gray dogwood, redosier dogwood, silky dogwood	Cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	Arborvitae, blackgum, green hawthorn, overcup oak, common hackberry	Green ash, swamp white oak, baldcypress, river birch, sweetgum, willow oak, red maple	Pin oak, eastern cottonwood
44004: McCune-----	American plum, fragrant sumac	Blackhaw, gray dogwood	Washington hawthorn, eastern redcedar, nannyberry	Baldcypress, green ash, sweetgum	Eastern white pine, pin oak
46001: Verdigris-----	American plum, fragrant sumac	Blackhaw, gray dogwood	Washington hawthorn, eastern redcedar, nannyberry	Baldcypress, green ash, sweetgum	Eastern white pine, pin oak
46002: Hepler-----	American plum, fragrant sumac	Blackhaw, gray dogwood	Washington hawthorn, eastern redcedar, nannyberry	Baldcypress, green ash, sweetgum	Eastern white pine, pin oak
46004: Osage-----	Buttonbush, common elderberry, common ninebark, gray dogwood, redosier dogwood, silky dogwood	Cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	Arborvitae, blackgum, green hawthorn, overcup oak, common hackberry	Green ash, swamp white oak, baldcypress, river birch, sweetgum, willow oak, red maple	Pin oak, eastern cottonwood
46005: Verdigris-----	American plum, fragrant sumac	Blackhaw, gray dogwood	Washington hawthorn, eastern redcedar, nannyberry	Baldcypress, green ash, sweetgum	Eastern white pine, pin oak
70006: Credon-----	American plum, common lilac, fragrant sumac	Amur maple, Washington hawthorn, gray dogwood	Austrian pine, Virginia pine, common hackberry, eastern redcedar, honeylocust	---	---

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
70012: Hoberg-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---
70045: Keeno-----	American plum, common lilac, fragrant sumac	Amur maple, Washington hawthorn, gray dogwood	Austrian pine, Virginia pine, common hackberry, eastern redcedar, honeylocust	---	---
70056: Crackerneck-----	Common lilac, fragrant sumac	American plum, gray dogwood	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine-----	---
70057: Crackerneck-----	Common lilac, fragrant sumac	American plum, gray dogwood	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine-----	---
70058: Crackerneck-----	Common lilac, fragrant sumac	American plum, gray dogwood	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine-----	---
70059: Goss-----	Common lilac, fragrant sumac	American plum, gray dogwood	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine-----	---

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
70060: Hoberg-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---
Eldorado-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---
Pomme-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---
70061: Pomme-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---
70062: Pomme-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---
Rueter-----	Common lilac, fragrant sumac	American plum, gray dogwood	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine-----	---

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
70063: Rueter-----	Common lilac, fragrant sumac	American plum, gray dogwood	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine-----	---
70064: Rueter-----	Common lilac, fragrant sumac	American plum, gray dogwood	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine-----	---
70065: Rueter-----	Common lilac, fragrant sumac	American plum, gray dogwood	Bur oak, common hackberry, eastern redcedar, Austrian pine, green ash, honeylocust	Shortleaf pine-----	---
70066: Winnipeg-----	Northern spicebush, redosier dogwood, silky dogwood, black chokeberry, mapleleaf viburnum	American hazelnut, American plum, blackhaw, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, nannyberry, arborvitae, eastern redcedar, pecan, red pine, white oak	Norway spruce, black walnut, tuliptree, blackgum, common hackberry, green ash, northern red oak	Eastern white pine, eastern cottonwood
71751: Bearthicket-----	American plum, fragrant sumac	Blackhaw, gray dogwood	Washington hawthorn, eastern redcedar, nannyberry	Baldcypress, green ash, sweetgum	Eastern white pine, pin oak
73031: Gerald-----	American plum, common lilac, fragrant sumac	Amur maple, Washington hawthorn, gray dogwood	Austrian pine, Virginia pine, common hackberry, eastern redcedar, honeylocust	---	---

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
75376: Cedargap-----	American cranberrybush, American plum, common juniper, coralberry, roughleaf dogwood	Washington hawthorn, common serviceberry, eastern redcedar, smooth sumac	Virginia pine, black oak, blackgum, common hackberry, shortleaf pine	---	---